

Report of Test

LLIA000537-017

Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

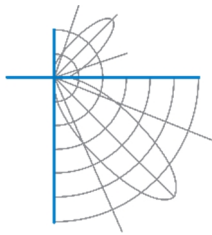
One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)



Performance Summary

Total Light Output	4957 lm
Luminaire Power	49.3 W
Luminous Efficacy	100.5 lm/W

PREPARED FOR : Precision Architectural Lighting, 4830 Timber Creek Drive, Houston, TX



Test Report No. LLIA000537-017

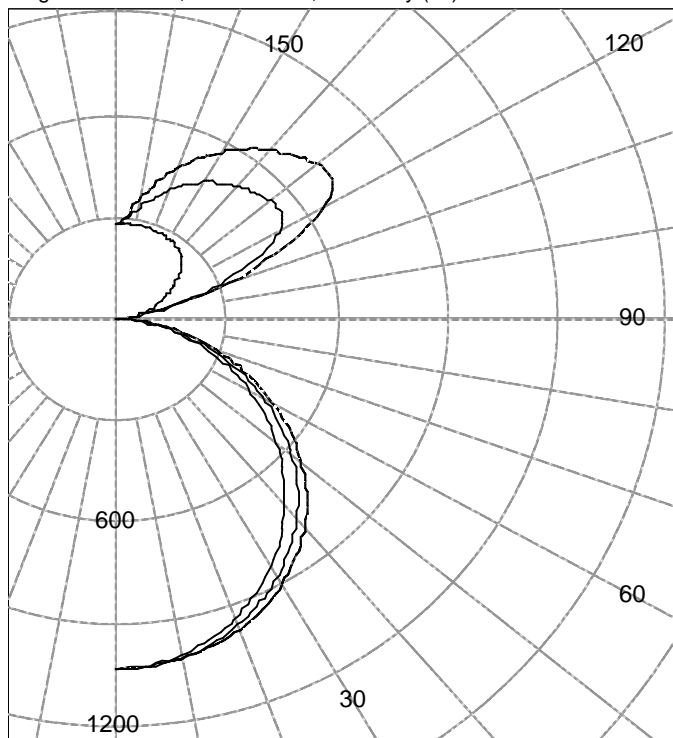
Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63% THD(i)

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	1	1	1	1	1	
95.0	21	30	13	9	8	24
100.0	52	77	78	53	50	
105.0	83	120	196	179	153	166
110.0	111	178	297	346	355	
115.0	140	241	418	485	502	360
120.0	169	299	512	612	643	
125.0	198	336	547	669	714	444
130.0	226	356	543	662	711	
135.0	247	367	528	637	683	386
140.0	262	372	510	609	650	
145.0	272	369	489	575	612	294
150.0	277	361	464	536	568	
155.0	279	347	435	494	520	195
160.0	281	331	402	449	470	
165.0	281	314	365	401	417	102
170.0	281	298	327	350	360	
175.0	282	287	296	302	306	29
180.0	282	282	282	282	282	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
180-150	326	N / A	6.6
180-140	620	N / A	12.5
180-120	1451	N / A	29.3
180-90	2001	N / A	40.4
140-90	1381	N / A	27.8
120-90	550	N / A	11.1
90-0	2956	N / A	59.6
180-0	4957	N / A	100.0

Total Light Output = 4,957 lm

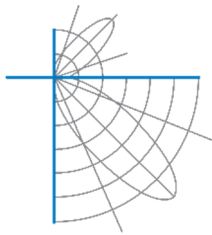
AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	1158	1256	1319
55.0	1092	1207	1279
65.0	1008	1119	1201
75.0	881	982	1067
85.0	719	736	754

Signed:

Michael L. Grather
Authorized Signatory

Date of test 10-Feb-2016
Date of report 11-Feb-2016



Test Report No. LLIA000537-017

Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

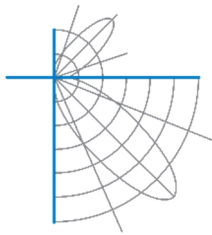
Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1032	1032	1032	1032	1032
2.5	1032	1027	1033	1033	1029
5.0	1027	1023	1030	1031	1026
7.5	1019	1016	1024	1026	1022
10.0	1009	1007	1016	1020	1016
12.5	996	995	1006	1011	1009
15.0	981	981	994	1001	999
17.5	963	964	980	989	988
20.0	943	945	964	975	975
22.5	921	924	945	959	960
25.0	896	900	924	941	942
27.5	870	875	902	921	923
30.0	842	848	878	898	902
32.5	812	819	852	874	879
35.0	780	789	824	847	853
37.5	747	757	794	819	826
40.0	713	724	763	788	796
42.5	677	690	730	756	764
45.0	641	655	695	721	730
47.5	604	619	659	685	693
50.0	567	583	622	647	655
52.5	529	545	583	606	616
55.0	490	507	542	565	574
57.5	451	468	500	523	531
60.0	412	429	457	479	488
62.5	373	389	414	434	443
65.0	333	348	370	390	397
67.5	294	307	326	344	352
70.0	255	265	283	300	306
72.5	216	225	240	255	261
75.0	178	185	199	212	216
77.5	142	148	159	169	173
80.0	109	112	121	128	131
82.5	77	79	84	89	90
85.0	49	49	50	51	51
87.5	23	21	18	15	14
90.0	1	1	1	1	1



Test Report No. LLIA000537-017

Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

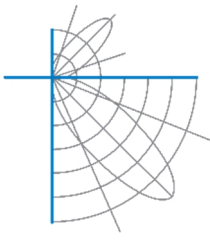
Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed
on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	1	1	1	1	1
92.5	7	6	2	2	2
95.0	21	30	13	9	8
97.5	36	59	34	26	25
100.0	52	77	78	53	50
102.5	68	97	141	98	87
105.0	83	120	196	179	153
107.5	97	148	242	278	258
110.0	111	178	297	346	355
112.5	126	209	358	413	427
115.0	140	241	418	485	502
117.5	154	272	471	554	577
120.0	169	299	512	612	643
122.5	184	320	537	651	690
125.0	198	336	547	669	714
127.5	213	348	548	671	719
130.0	226	356	543	662	711
132.5	237	363	536	650	697
135.0	247	367	528	637	683
137.5	256	371	519	623	667
140.0	262	372	510	609	650
142.5	268	371	500	592	632
145.0	272	369	489	575	612
147.5	275	366	477	556	590
150.0	277	361	464	536	568
152.5	278	354	450	515	544
155.0	279	347	435	494	520
157.5	280	339	419	472	495
160.0	281	331	402	449	470
162.5	281	322	384	426	444
165.0	281	314	365	401	417
167.5	281	305	346	376	389
170.0	281	298	327	350	360
172.5	282	292	310	324	331
175.0	282	287	296	302	306
177.5	282	284	286	287	288
180.0	282	282	282	282	282



Test Number: LLIA000537-017

Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

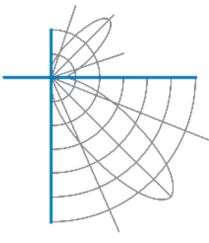
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	95	91	88	93	89	86	82	78	75	73	67	65	63	57	56	54	50
2	91	83	77	71	84	78	72	67	68	63	60	59	55	52	50	48	46	41
3	83	73	65	59	77	68	61	56	60	54	50	52	48	44	44	41	39	35
4	75	64	56	50	70	60	53	47	53	47	42	46	41	38	39	36	33	30
5	69	57	49	43	64	54	46	41	47	41	37	41	36	33	35	32	29	26
6	64	51	43	37	59	48	41	35	42	36	32	37	32	28	32	28	25	22
7	59	46	38	32	55	44	36	31	38	32	28	34	29	25	29	25	22	20
8	55	42	34	29	51	40	32	27	35	29	25	31	26	22	27	23	20	18
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	25	21	18	16
10	48	35	28	23	44	33	26	22	30	24	20	26	21	18	23	19	16	14

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	28.7	7.29	7.79
8.0	16.1	9.72	10.38
10.0	10.3	12.15	12.98
12.0	7.2	14.58	15.57
14.0	5.3	17.01	18.17
16.0	4.0	19.44	20.76



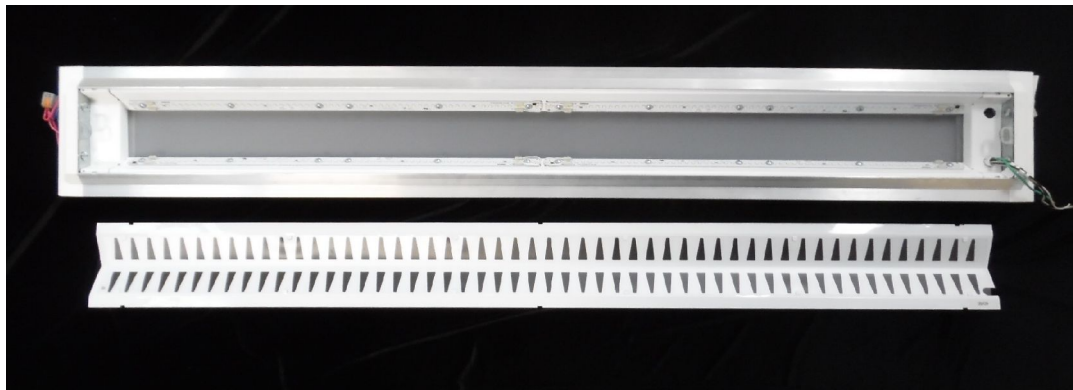
Test Report No. LLIA000537-017

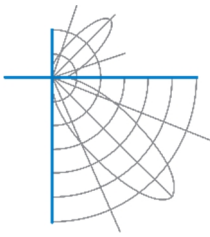
Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed
on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)





Test Report No. LLIA000537-017

Catalog Number: DXS-I/D-XHO-K40-4-X-OC4/LOH-X-120

Pendant mounted, extruded aluminum housing, 40/60 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4132A, 49.32W, 0.995PF, 8.63%THD(i)

Test Distance 9.5 m
Test Temperature 24.9 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2011, ANSI C82.77:2002.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.